Office Memorandum • UNITED STATES GOVERNMENT

33					25 X 1
. o	The Files - RD-10	3, T.O. 8	DATE: 29 May 1	.959	
ROM :					25X
UBJECT:	/AG & Boom Guardan				
овјест.	AS-6 Power Supply	A Server Constitution of the Server			
	1. On 26 Ma	y 1959 a conference was	held with	of the	25X
		to discuss the progre	ss of the radioisotope	power	25X
	supply which	is building for the	AEC as part of our AS-	6 program.	25 X
	2.	was given the result		tests of	25 X
	the prototype		used a radioi sotope b		25 X
		lum 210. No difficulty ppe-thermocouple rechar			
	in the power	er conversion equipment	included in the power	supply box.	25 X
		ter refused to start u short-circuited. Both			
		prototype power supply	was left at		25 X
		for c	ontinued testing of the	e AS-6.	25 X
	3. The prime	ry purpose of	visit was to desc	ribe the	25 X
	proposed layout of	the operational AS-6	power supply due to be	delivered by	
		t. A special NICAD ce being tested by			
	final power supply	. This cell has a cap	acity of 5.6 ampere ho	urs but is	25 X 1
		e to a 3 ah cell. (The capacity). Converting			
		battery by 4 lbs. and,			25X1
	of batteries inste	ad of two around the s	pherical thermoelectric	generator.	20/(1
		y combination will thus 12 x 9 inches) rather			
	approximately 12 x				25X1
	4.	recommended placing	the power converte	er in a	25X
	hermatically seale	d container separate f:	rom his 28 volt batter;	y instead of	20/
		th it. The two boxes was a cal purposes would be l			
	measuring approxim	ately 8" x 13" x15". !	This would allow	to seal	25 X
	the battery charge	r and begin a 30-day e	vironmental test without	out waiting	
	for the equipment equipment of	ipment to be delivered the prototype	. According to converters caused a dra	last	25X 25X
	sign. of the		enlarged by 30% to acco		25X1



unexpectedly large size.

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5. As a final recommendation	suggested that					
package and seal its own converters in the second power supply box to be						
supplied, if necessary, by	This unit after assembly and sealing					
could be system tested by with	the final AS-6 using any 28-volt					
battery as a primary power source. A						
	terminal strips and bolt both units					
together for a total power size of 8'						
that the weight of the complete power	r supply would be 31 pounds, depending					
upon the success has in reducing its 17 pound converter units to						
the expected 5 pounds.						
6. was told that his	s suggestions appear likely to result					
in a superior product, and that our						
	in conjunction with the transmitter.					
He was reminded, however, that	is doing this program for the AEC					
and that any changes, however minor,						
	the Aircraft Reactors Branch of the					
AEC was aware of this conference and						
the proposed changes.						
* To						
7. suggestions wer	re received favorably by					
who said he preferred to reta	in control over the wiring and assembly					
of the converters.	agreed to send two prototype					
converters (one high-voltage and one						
converters (one high-voltage and one in determining the dimensions of the	low-voltage) to for their use					
in determining the dimensions of the	low-voltage) to for their use					
	low-voltage) to for their use					
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